

Idaho National Engineering and Environmental Laboratory

IEA ESE Task 5 3rd Specialists Meeting on Component Failure Rate Data

**Lee Cadwallader
Fusion Safety Program
3rd Data Specialists Meeting
General Atomics, La Jolla
April 15, 2002**



Meeting Outline

- **Welcome to the 3rd meeting**
- **Today**
 - **Learn about the DIII-D machine, its mission, availability, maintenance, and spare parts issues**
 - **Tour the DIII-D machine**
- **Tomorrow**
 - **Status of the computerized failure rate database**
 - **Discuss recent data work among the participants**
 - **Discuss upcoming data needs**

IEA News

- **Dr. Werner Gulden, the chair of the Executive Committee, convened an IEA ESE/FP Executive Committee meeting during the TRITIUM 2001 conference in Tsukuba on November 14, 2001.**
- **He announced that the IEA ESE/FP will file for another 5-year term with the IEA this spring. The new term is expected to be approved, and will begin in July 2002.**
- **He also announced that there are now nine subtasks.**

Current subtasks for IEA/ESE FP

- **Task 1 - Tritium safety and environmental effects (Anderl)**
- **Task 2 - Transient thermofluid modeling (Takase)**
- **Task 3 - Activation products safety (Petti)**
- **Task 4 - Safety system study methodology (Kurihara)**
- **Task 5 - Failure rate database (Cadwallader)**
- **Task 6 - Radioactive waste study (Zucchetti)**
- **Task 7 - Socio-economic aspects of fusion power (Cook)**
- **Task 8 - Magnet safety (Merrill)**
- **Task 9 - Fusion power plant studies (Najmabadi - acting)**

Meeting Agenda for Today

- **DIII-D Overview and Missions, Availability**
- **DIII-D Trouble Report Database**
- **DIII-D Maintenance Planning**
- **DIII-D Spare Parts Inventory**
- **Recent US data work**
- **DIII-D machine tour**
- **Evening meal at Peter Petersen's home**

Meeting Agenda for Tomorrow

- **Computerized database progress**
- **Recent data work in Italy**
- **Brief overview of data work in France, Japan, Germany, and the Russian Federation**
- **Recent data work at JET**
- **Roundtable discussion of upcoming data needs, computerized database usage and future plans**
 - **How can Task 5 support the ITER project?**
 - **New projects that will require data**
 - **Using the database**